

1/1  
 GCG CTC GAG GGT ACC GAA TTC GCA CCG GCT CAG CTT AGC GAA CGC ATG ACC CTG GCC AGT  
 A L E G T E F A R A Q L S E R M T L A S  
 61/21  
 GGT CTC AAG ACG AAA GTG AGC GAT ATC TTC TCT CAG GAT GGG TCC TGC CCG GCT AAT ACT  
 G L K T K V S D I F S Q D G S C P A N T  
 121/41  
 GCT GCC ACG GCA GGC ATC GAG AAA GAT ACC GAC ATC AAC GGC AAG TAT GTT GCC AAG GTA  
 A A T A G I E K D T D I N G K Y V A K V  
 181/61  
 ACA ACT GGT GGC ACC GCA GCT GCG TCT GGT TGC ACT ATC GTT GCT ACT ATG AAA GCC  
 T T G G T A A S G G C T I V A T M K A  
 241/81  
 TCT GAT GTG GCT ACT CCT CTG AGG GGG AAA ACT CTG TTG ACT CTA GGA AAT GCT GAC  
 S D V A T P L R G K T L T L G N A D  
 301/101  
 AAG GGT TCT TAC ACT TGG GCC TGT ACT TCC AAC GCA GAT AAC AAG TAC CTG CCA AAA ACC  
 K G S Y T W A C T S N A D N K Y L P K T  
 361/121  
 TGC CAG ACT GCT ACC ACT ACC ACT CCG  
 C Q T A T T T P

Fig. 1A

1/1 GCG CTC GAG GGT ACC GAA TTC GCT CGT TCG GAA GGC GCA TCT GCT CTT GCT TCG GTC AAT  
 A L E G T E F A R S E G A S A L A S V N  
 61/21 CCG TTG AAG ACT ACC GTT GAA GAG GCG CTT TCT CGT GGT TGG AGC GTG AAG AGC GGT ACA  
 P L K T T V E E A L S R G W S V K S G T  
 121/41 GGT ACA GAG GAC GCT ACT AAG AAA GAG GTT CCT CTG GGG GTG GCG GCA GAT GCT AAC AAA  
 G T E D A T K K E V P L G V A A D A N K  
 181/61 CTG GGT ACT ATC GCA CTC AAA CCC GAT CCT GCT GAT GGT ACT GCA GAT ATC ACT TTG ACT  
 L G T I A A L K P D P A D G T A D I T L T  
 241/81 TTC ACT ATG GGC GGT GCA GGA CCG AAG AAT AAA GGG AAA ATT ATT ACC CTG ACT CGT ACT  
 F T M G G A G P K N K G K I I T L T R T  
 301/101 GCA GCT GAT GGT CTC TGG AAG TGC ACC AGT GAT CAG GAT GAG CAG TTT ATT CCG AAA GGT  
 A A D G L W K C T S D Q D E Q F I P K G  
 361/121 TGC TCT AGG  
 C S R

Fig. 1B

1/1  
 CCG CTC GAG GGT ACC GAA TTC GCG CGT TCG GAA GGT GCT TCG GCG CTG GCG ACG ATC AAC  
 A L E G T E F A R S E G A S A L A T I N  
 61/21  
 CCG CTG AAG ACC ACT GTT GAA GAG TCG CTG TCG CGT GGA ATT GCT GGT AGC AAA ATT AAA  
 P L K T T V E E S L S R G I A G S K I K  
 121/41  
 ATT GGT ACT ACT GCT TCT ACT GCG ACC GAA ACA TAT GCC GGC GTC GAG CCG GAT GCC AAC  
 I G T A S T A T E T Y A G V E P D A N  
 181/61  
 AAG TTG GGT GTA ATT GCT GTA GCA ATC GAA GAT AGT GGT GCG GGT GAT ATT ACC TTT ACC  
 K L G V I A V A I E D S G A G D I T F T  
 241/81  
 TTC CAG ACT GGT ACC TCT AGT CCC AAG AAT GCT ACT AAA GTT ATC ACT CTG AAC CGT ACT  
 F Q T G T S S P K N A T K V I T L N R T  
 301/101  
 CCG GAT GGG GTC TGG GCT TGT AAA TCT ACC CAG GAT CCG ATG TTC ACT CCG AAA GGT TCT  
 A D G V W A C K S T Q D P M F T P K G S  
 361/121  
 GAT AAC  
 D N

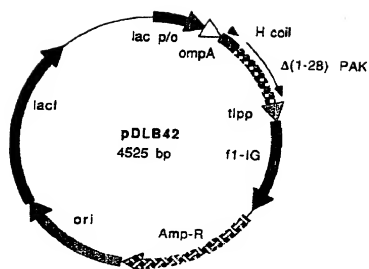
Fig. 1C

1/1 GCG CTC GAG GGT ACC GAA TTC GCC CGT ACC CAG GTG ACC CGT GCC GTG AGT GAA GTC AGC  
 A L E G T E F A R T Q V T R A V S E V S  
 61/21 GCG CTG AAG ACC GCT GCG GAG TCG GCG ATT CTG GAA GGG AAG GAG ATT GTT TCC AGC GCG  
 A L K T A A E S A I L E G K E I V S S A  
 121/41 ACT CCT AAA GAT ACC CAG TAT GAC ATT GGC TTC ACC GAG TCT ACT TTG CTA GAT GGT TCT  
 T P K D T Q Y D I G F T E S T L L D G S  
 181/61 GGT AAG AGT CAG ATC CAG GTA ACG GAC AAT AAA GAT GGC ACC GTT GAG TTG GTC GGT ACC  
 G K S Q I Q V T D N K D G T V E L V A T  
 241/81 TTG GGT AAA TCT TCT GGT TCC GCC ATC AAA GGG GCT GTA ATC ACT GTT TCG CGT AAA AAT  
 L G K S S G S A I K G A V I T V S R K N  
 301/101 GAC GGA GTC TGG AAC TGC AAA ATC ACC AAA ACT CCT ACA GCT TGG AAG CCC AAC TAC GCT  
 D G V W N C K I T K T P T A W K P N Y A  
 361/121 CCG GCT AAT TGC CCG AAT TCC  
 P A N C P N S

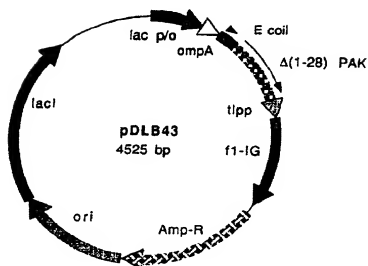
Fig. 1D

1/1	CGC CTC GAG GGT ACC GAA TTC TCT CGC TCT CAG GTC	31/11	TCC AGG GTT ATG GCG GAG GCT GGC
61/21	A L E G T E F S R S Q V S	91/31	R V M A E A G
121/41	TCC TTG AAG ACT GCA GTT GAG GCC TGC CTC CAG GAT	151/51	GGT CGT ACT GCT GTG GGT ACT GCT
181/61	S L K T A V E A C L Q D G R T A V G T A	211/71	GGT TTTG ACT GGT GCT TCT CAG ACT
241/81	GCT GGT CAA TGC GAT CCG GGT GCG ACG GGT TCC AGT	271/91	TTG L T G A S Q T
301/101	A G Q C D P G A T G S S L L T G A S Q T	331/111	CTG CCT CTG ACT ACT CAA
361/121	TCT CAA ACC CTG CCA ACC AAT ACC GGT GTT CCG CAG GTT		CTG GCA GCT ATT TCT GGC CAG ACT CTG
	S Q T L P T N T G V P Q V L D P L T T Q		T T I A T F G N G A S A I S G Q T L
	ACC ACT ATC ATT GCG ACT TTT GGT AAC GGC GCA TCC		ACT TGT GGT ACT ACC GTA GAT GCT AAA TTC
	T T I I A T F G N G A S A I S G Q T L		CGT CCT AAT GGC TGT ACT GAC
	ACC TGG ACT CGT GAT GTT AAT GGT GGC TGG AGC TGT		R P N G C T D
	T W T R D V N G G W S C A T T V D A K F		

Fig. 1E



**Fig. 2A**



**Fig. 2B**

DN A sequence 613 b.p. ttctagataacg ...AAGAAGCTTGGG linear

```

86/1      116/11
gcy ctc gag cac cat cat cac cat ggt ggt ggc gag att gag gcc ctc aag gct gaa
A L E H H H H H H G G G G G E I E A L K A E
146/21    176/31
atc gaa gcc cta aag gcc gag ata gaa gca ctt aag gca gag atc gag gcy cta aag gcy
I E A L K A E I E A L K A E I E A L K A
206/41    236/51
gaa ata gag gct ctg aag gca ggc ggt gga gga gaa ttc GCT CGT TCG GAA GGC OCA TCT
E I E A L K A G G G G G E F A R S E G A S
266/61    296/71
GCT CTT GCT TCG GTC AAT CCG TTG AAG ACT ACC GTT GAA GAG GCG CTT TCT CGT GGT TGG
A L A S V N P L K T T V E E A L S R G W
326/81    356/91
AGC GTG AAG AGC GGT ACA GGT ACA GAG GAC GCT ACT AAG AAA GAG GTT CCT CTG GGG GTG
S V K S G T G T E D A T K K E V P L G V
386/101   416/111
CGC GCA GAT GCT AAC AAA CTG GGT ACT ATC GCA CTC AAA CCC GAT CCT GCT GAT GGT ACT
A A D A N K L G T I A L K P D F A D G T
446/121   476/131
GCA GAT ATC ACT TTG ACT TTC ACT ATG GGC GGT GCA GGA CCG AAG AAT AAA GGG AAA ATT
A D I T L T F T M G G A G P K N E G K I
506/141   536/151
ATT ACC CTG ACT CGT ACT GCA GCT GAT GGT CTC TGG AAG TGC ACC AGT GAT CAG GAT GAG
I T L T R T A A D G L W K C T S D Q D E
566/161
CAG TTT ATT CCG AAA GGT TGC TCT AGG
Q F I P K G C S R

```

Fig. 3A

DN A sequence 613 b.p. ttctagataacg ... AAGAAGCTTGGG linear

```

86/1      116/11
gcy ctc gag cac cat cat cac cat ggt ggt ggc gag gta tcc gct tta gag aag gaa
A L E H H H H H H G G G G G E V S A L E X E
146/21    176/31
ggt tct gct ctc gaa aag gag gtc agt gct ctg gaa aag gag gtg tca gcc ttg gaa aag
V S A L E E V S A L E X E V S A L E X E
206/41    236/51
gaa gta tca gca ctt gag aag ggc ggt gga gga gaa ttc GCT CGT TCG GAA GGC OCA TCT
E V S A L E K G G G G G E F A R S E G A S
266/61    296/71
GCT CTT GCT TCG GTC AAT CCG TTG AAG ACT ACC GTT GAA GAG GCG CTT TCT CGT GGT TGG
A L A S V N P L K T T V E E A L S R G W
326/81    356/91
AGC GTG AAG AGC GGT ACA GGT ACA GAG GAC GCT ACT AAG AAA GAG GTT CCT CTG GGG GTG
S V K S G T G T E D A T K K E V P L G V
386/101   416/111
CGC GCA GAT GCT AAC AAA CTG GGT ACT ATC GCA CTC AAA CCC GAT CCT GCT GAT GGT ACT
A A D A N K L G T I A L K P D F A D G T
446/121   476/131
GCA GAT ATC ACT TTG ACT TTC ACT ATG GGC GGT GCA GGA CCG AAG AAT AAA GGG AAA ATT
A D I T L T F T M G G A G P K N E G K I
506/141   536/151
ATT ACC CTG ACT CGT ACT GCA GCT GAT GGT CTC TGG AAG TGC ACC AGT GAT CAG GAT GAG
I T L T R T A A D G L W K C T S D Q D E
566/161
CAG TTT ATT CCG AAA GGT TGC TCT AGG
Q F I P K G C S R

```

Fig. 3B

00000000000000000000

**Fig. 4A**

**Fig. 4B**



DNA sequence 610 b.p. ttctagataacg ... CGAAAGCTTGGG linear

```

86/1                               116/11
gcy ctc gag cac cat cat cac cat ggt ggt ggt ggc gag att gag gcc ctc aag gct gaa
A L E H H H H H H G G G G E I E A L K A E
146/21                               176/31
atc gaa gcc cta aag gcc gag ata gaa gca ctt aag gca gag atc gag gcy cta aag gcy
I E A L K A E I E A L K A E I E A L K A
206/41                               236/51
gaa ata gag gct ctg aag gca ggc ggt gga gga gaa ttc CGC CGT TCG GAA GGT GCT TCG
E I E A L K A G G G G G E F A R S E G A S
266/61                               296/71
CGC CTG GCG ACG ATC AAC CCG CTG AAG ACC ACT GTT GAA GAG TCG CTG TCG CGT GGA ATT
A L A T I N P L K T T V E E S L S R G I
326/81                               356/91
GCT GGT AGC AAA ATT AAA ATT GGT ACT ACT GCT TCT ACT CGC ACC GAA ACA TAT GCC GGC
A G S K I K I G T T A S T A T E T Y A G
386/101                               416/111
GTC GAG CCG GAT GCC AAC AAG TTG GGT GTA ATT GCT GTA GCA ATC GAA GAT AGT GGT GCG
V E P D A N K L G V I A V A I E D S G A
446/121                               476/131
GGT GAT ATT ACC TTT ACC TTC CAG ACT GGT ACC TCT AGT CCC AAG AAT GCT ACT AAA GTT
G D I T F T F Q T G T S S P K N A T K V
506/141                               536/151
ATC ACT CTG AAC CGT ACT GCG GAT GGG GTC TGG GCT TGT AAA TCT ACC CAG GAT CCG ATG
I T L N R T A D G V W A C K S T Q D P M
566/161
TTC ACT CCG AAA GGT TCT GAT AAC
P T P K G S D N

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Fig. 5A

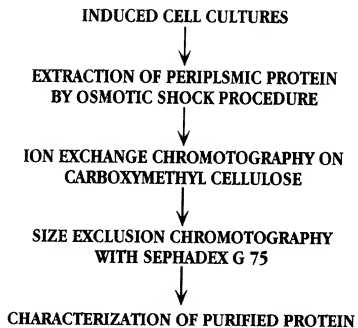
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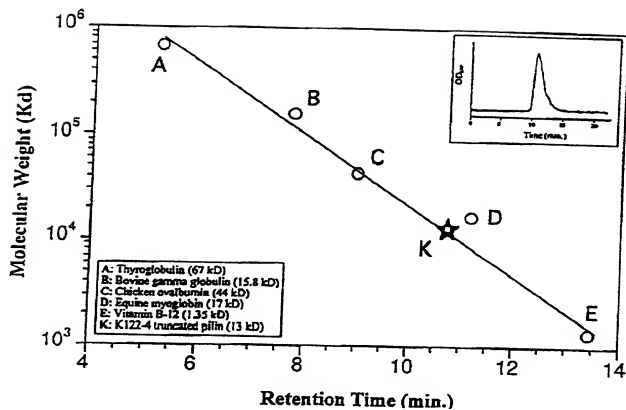
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A L E H H H H H H G G G G E I E A L E K E
146/21                               176/31
gtt tct gct ctc gaa aag gag gtc agt gct ctg gaa aag gag gty tca gcc ttg gaa aag
V S A L E K E V S A L E K
206/41                               236/51
gaa gta tca gca ctt gag aag ggc ggt gga gga gaa ttc CGC CGT TCG GAA GGT GCT TCG
E V S A L E K G G G G E F A R S E G A S
266/61                               296/71
CGC CTG GCG ACG ATC AAC CCG CTG AAG ACC ACT GTT GAA GAG TCG CTG TCG CGT GGA ATT
A L A T I N P L K T T V E E S L S R G I
326/81                               356/91
GCT GGT AGC AAA ATT AAA ATT GGT ACT ACT GCT TCT ACT CGC ACC GAA ACA TAT GCC GGC
A G S K I K I G T T A S T A T E T Y A G
386/101                               416/111
GTC GAG CCG GAT GCC AAC AAG TTG GGT GTA ATT GCT GTA GCA ATC GAA GAT AGT GGT GCG
V E P D A N K L G V I A V A I E D S G A
446/121                               476/131
GGT GAT ATT ACC TTT ACC TTC CAG ACT GGT ACC TCT AGT CCC AAG AAT GCT ACT AAA GTT
G D I T F T F Q T G T S S P K N A T K V
506/141                               536/151
ATC ACT CTG AAC CGT ACT GCG GAT GGG GTC TGG GCT TGT AAA TCT ACC CAG GAT CCG ATG
I T L N R T A D G V W A C K S T Q D P M
566/161
TTC ACT CCG AAA GGT TCT GAT AAC
P T P K G S D N

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Fig. 5B

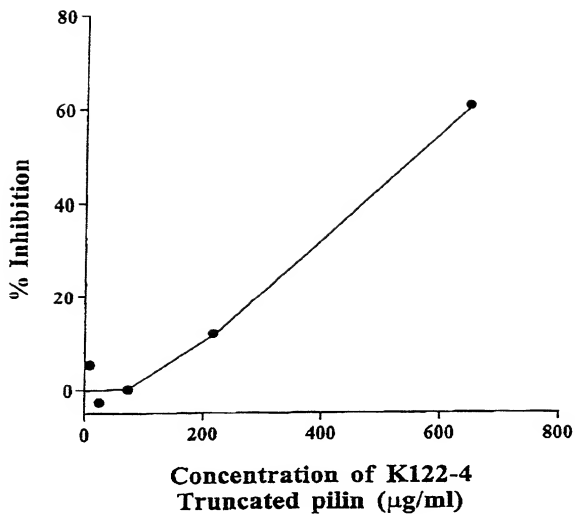


**Fig. 6**

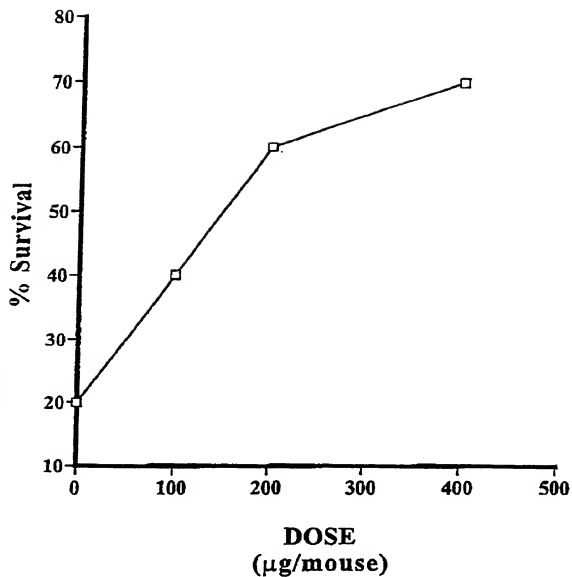


**Fig. 7**

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**Fig. 8**



**Fig. 9**